Data Handling – Two way tables DH1.1

Q2 There are 50 pupils in each of the year groups, Year 9, Year 10 and Year 11 at Lucca High School. A survey was carried out to find how many pets these pupils owned. The results are shown in the table below.

|  |  |  |  |
| --- | --- | --- | --- |
| Number of pets | **Year 9** | **Year 10** | **Year 11** |
| 0 | 1 | 5 | 32 |
| 1 | 29 | 22 | 11 |
| 2 | 14 | 19 | 6 |
| 3 | 5 | 4 | 1 |
| 4 | 1 | 0 | 0 |

a) How many pupils in Year 10 own no pets?

b) How many of the pupils own exactly two pets?

c) What is the most common number of pets owned by pupils?

d) Which year group owns the least number of pets?

Use the figures to explain your answer.

e) What is the ratio of year 9, 10 and 11 students who have 2 pets?

Q2 A gym has 69 members.

38 of these members are boys.

There are 19 members who are girls and under 15 years old.

There are 23 members who are boys and over 15 years old.

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  | Total |
| Boys |  |  |  |
| Girls |  |  |  |
| Total |  |  | 69 |

a) Complete the two-way table, start with filling in the info above.

b) Work out how many members of the gym are girls 15 years old or over.

Data Handling – Two way tables and Bar charts DH1.2

Q3 This table shows which science some students prefer.

Use the totals in the two way table to fill in the missing values.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Biology** | **Chemistry** | **Physics** | **Total** |
| **Girls** | 20 |  | 24 | 80 |
| **Boys** |  |  |  |  |
| **Total** | 40 | 54 |  | 160 |

a) How many students prefer Chemistry?

b) What percentage of girls prefer Physics?

c) Which science did the most boys prefer?

d) Who preferred Biology more, the boys or the girls and why?

e) If a boy is chosen at random, what is the probability that he prefers chemistry?

Q4 Use the data in the table below to reproduce the two way table used to create it.

Bar Chart showing which flavour of ice cream students prefer

Frequency

Flavours of Ice Cream